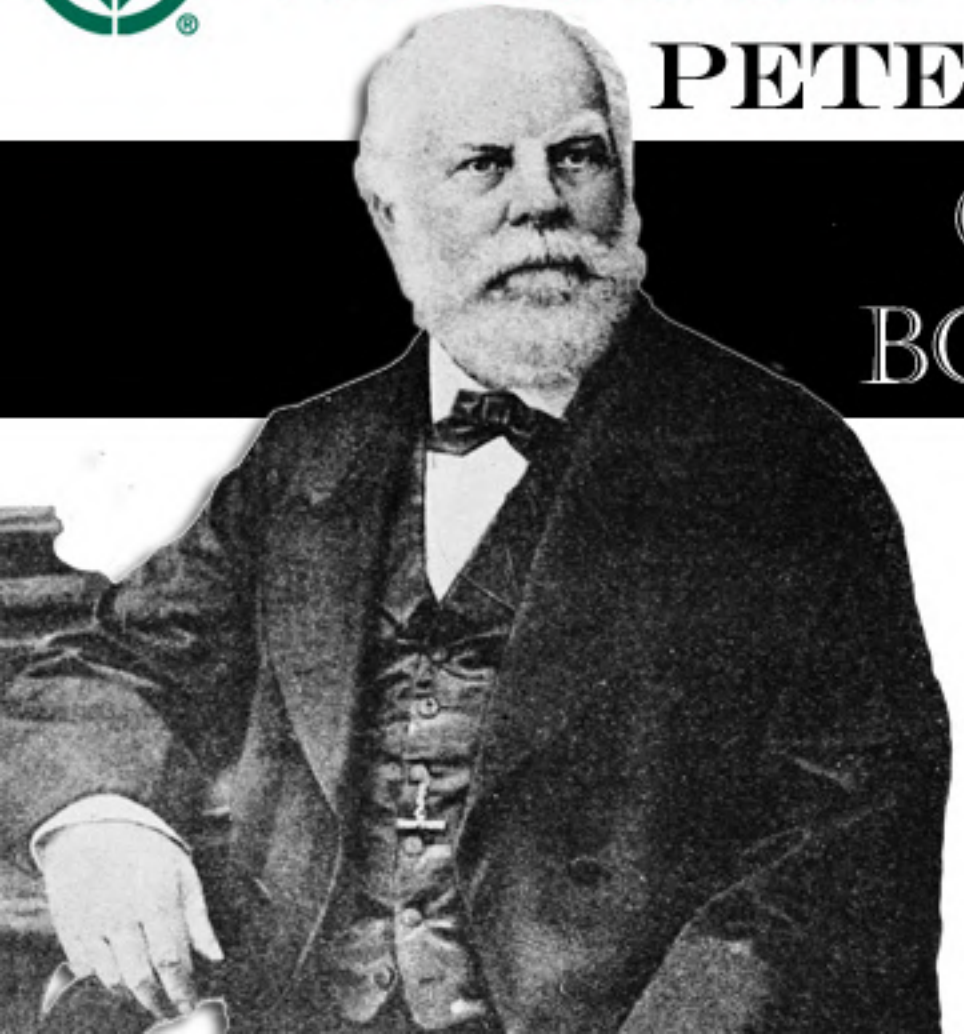
Missouri Botanical Garden

Peter H. Raven Library

George Engelmann Botanical Notebooks



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Rec Jan 21st
Ans Febr 23 & 19 March

Brandegee, T.S.

Canon City,
Jan. 16th 1875

Juncus undulata

Dr. Geo. Engelmann

Dear Sir. Your last letter was recvd. some time ago
My Lo- day I took a walk up on the side of the mountain opposite the Hot Spring and cut a good stick of Juniperus Virginiana and one of J. occidentalis which will be sent to you after a while I have now on hand ready to send trunks of Abies concolor. Pinus edulis & the Junipers, Specimens of most of the Cacti — as soon as I collect a few more cacti I will send a box to You — Do you wish wood of Pinus ponderosa & Abies Douglasii? — I found today a grand locality for Quercus Emory: — better — Emory: than that of the Greenhorn Range by Oak Creek — the Most of the Clumps of bushes are green

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MISSOURI BOTANICAL GARDEN

MISSOURI BOTAN
GEORGE ENGELM

some bright green, some not bright
green, but yet green and very few
with the leaves brown. On the bright
green clumps, I was happy to find
the cups of the acorns persistent
Some clumps had three quarters of
their season's growth of acorn cups
yet fresh remains on the branches
Some clumps had lost more than
half and the other half was persistent
The last half was upon the ground
and quite fresh looking. Some of
the cups persistent would drop at
a touch and others could not be
shaken off. Some of the persistent cups
contained acorns, but they were small
or deformed so as to be tightly held
by the persistent cups. All this may
not be very interesting to you but it
is new & strange looking to me
and I will write on — The persis-
tent cups are almost invariably on

OURI BOTANICAL GARDEN
RGE ENGELMANN PAPERS

5897

bushes with bright green leaves but
some few with green but not bright
green leaves bore some of their acorn cups
to find persistent acorn cups I would
always go to a bright green patch and
seldom be disappointed — On a very
few bright green bushes the sterile
aments were hanging. One clump
in particular seemed to have as
many sterile aments as it would
have in the spring of the year.
You know that Q. undulata in
moist localities sometimes grows into
trees fifteen feet high — I saw one
green patch of Q. Emory attempting to
send up a tree after the manner of
undulata — the tree was about eight
feet high and the trunk 6 to 8 inches
in diameter — This is the largest Emory
tree I have seen — All peculiarities of color,
shape of leaves, persistance of acorns or aments
height of bushes, belong to clumps or patches

4

I mean one whole clump has its pleculiarity which the next patch will not have — I wrote this to you in my last letter and you wished me to dig down to the root of the matter, which I have not done yet — But there can be no doubt of their underground connection, to which you allusion in your last letter — You will find some leaves of Quercus Emory, in the letter gathered June 16 1875 — I put in the brown one on account of its outline.

This Q. Emory locality is quite near town and I can visit it any morning I wish and of course shall keep watch of it — The large leaves with purple midvein are perhaps from radical sterile shoots — I have not seen the Quercus Emory over on the Oak Creek since I last wrote to you but I do not think any patches there had persistent acorn cups or I certainly would have noticed it I saw but one clump of undulata to-day and that with its few large thin dry leaves seemed very differ= ent from the Q. Emory. I had been looking at. The thermometer has been below zero two weeks

undulata 63-96

they all saw that, although the Goussain had then been suspended by the feet for some hours, his face was calm, that he spoke without difficulty, and certainly appeared to feel no inconvenience; when they asked him how he had managed to accustom himself to that position, he answered that God had given him this power as an evidence of his sanctity. Of course it would have been difficult to obtain any other explanation. For more than a month this holy man remained thus suspended like a ham during the greater part of each morning, and gained by it a good round sum. The rajah, however, never came to see him.

Still another type of these religious enthusiasts and beggars M. Rousselet encountered at Bhopaul. These fakirs go about entirely naked, except a strip of cloth around their loins, and announce their presence by a series of lamentable cries while they dance a mournful kind of dance. In the midst of their contortions they brandish about long, sharp poniards of peculiar shape and ornamented with little charms of steel. From time to time one of these enthusiasts thrusts the poniard into his body, for the most part striking his chest, his arms, or his thighs. He keeps up these stabs until, to calm his apparent madness, the by-standers have thrown him a goodly number of coin. These unfortunates, streaming with blood, were hideous to look upon, and M. Rousselet's sympathies with them were excited not a little until Houssein Khan, who accompanied him, satisfied him that the daggers which they flourished so furiously, and which they thrust into themselves so recklessly, were purposely so made with rounded points that it was almost impossible for them to inflict serious wounds. Besides, the fakirs were careful to strike themselves always in parts which were not vital, and the wounds they made were seldom more than skin deep.

A much more pleasing performance, and one which might perhaps better have been mentioned in connection with the exploits of the jugglers, is the "egg dance." This is not, as one might expect from the name given it, a dance upon these fragile objects. It is executed in this wise: The dancer, dressed in a corsage and very short skirt, carries a willow wheel of moderate diameter fastened horizontally upon the top of her head. Around this wheel threads are fastened, equally distant from each other, and at the end of each of these threads is a slip noose, which is kept open by a glass bead. Thus equipped, the young girl comes toward the spectators with a basket full of eggs, which she passes around for inspection to prove that they are real, and not imitations. The music strikes up a jerky, monotonous strain, and the dancer begins to whirl around with great rapidity. Then, seizing an egg, she puts it in one of the slip nooses, and, with a quick motion, throws it from her in such a way as to draw the knot tight. The swift turning of the dancer produces a centrif-

FIGHT BETWEEN A PANTHER AND A BOAR.

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THE EGG DANCE.

ugal force which stretches the thread out straight like a ray shooting from the circumference of the circle. One after another the eggs are thrown out in these slip nooses until they make a horizontal aureole or halo about the dancer's head. Then the dance becomes still more rapid, so rapid in fact that it is difficult to distinguish the features of the girl; the moment is critical; the least false step, the least irregularity in time, and the eggs dash against each other. But how can the dance be stopped? There is but one way,—that is, to remove the eggs in the way in which they have been put in place. This operation is by far the more delicate of the two. It is necessary that the dancer, by a single motion, exact and unerring, should take hold of the egg, and remove it from the noose. A single false motion of the hand, the least interference with one of the threads, and the general arrangement is suddenly broken, and the whole performance disastrously ended. At last all the eggs are successfully removed; the dancer suddenly stops, and without seeming in the least dizzied by this dance of twenty-five or thirty minutes, she advances to the spectators with a firm step, and presents them the eggs,

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Q. undulata and allies Aug 30 1877

	Calyx. lobes	
Q. undulata	deciduous	obscura. lanceolate
		and various from elliptic to linear
Q —	sub perennans	pallida. o ovate obtuse
		to oblong.
Q. —	—	oblong falcis 1. " "
Q. dumosa	—	ovate-lanceolate
		or Gate

Henry T. Rohlfing,

APOTHECARY,

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.,

ST. LOUIS, MO.

No. ..... Date, ... 187

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No. 3003 Locust Street.

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G. undulata

Sepals

Calyx lobes	linear	lanceolate	ovate
	Parry, Utah Hall Colorado Fendler 809 Garrison	Palmer 5 May Green Colorado	Fendler 809. 810 6 Greene Colorado

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APOTHECARY,

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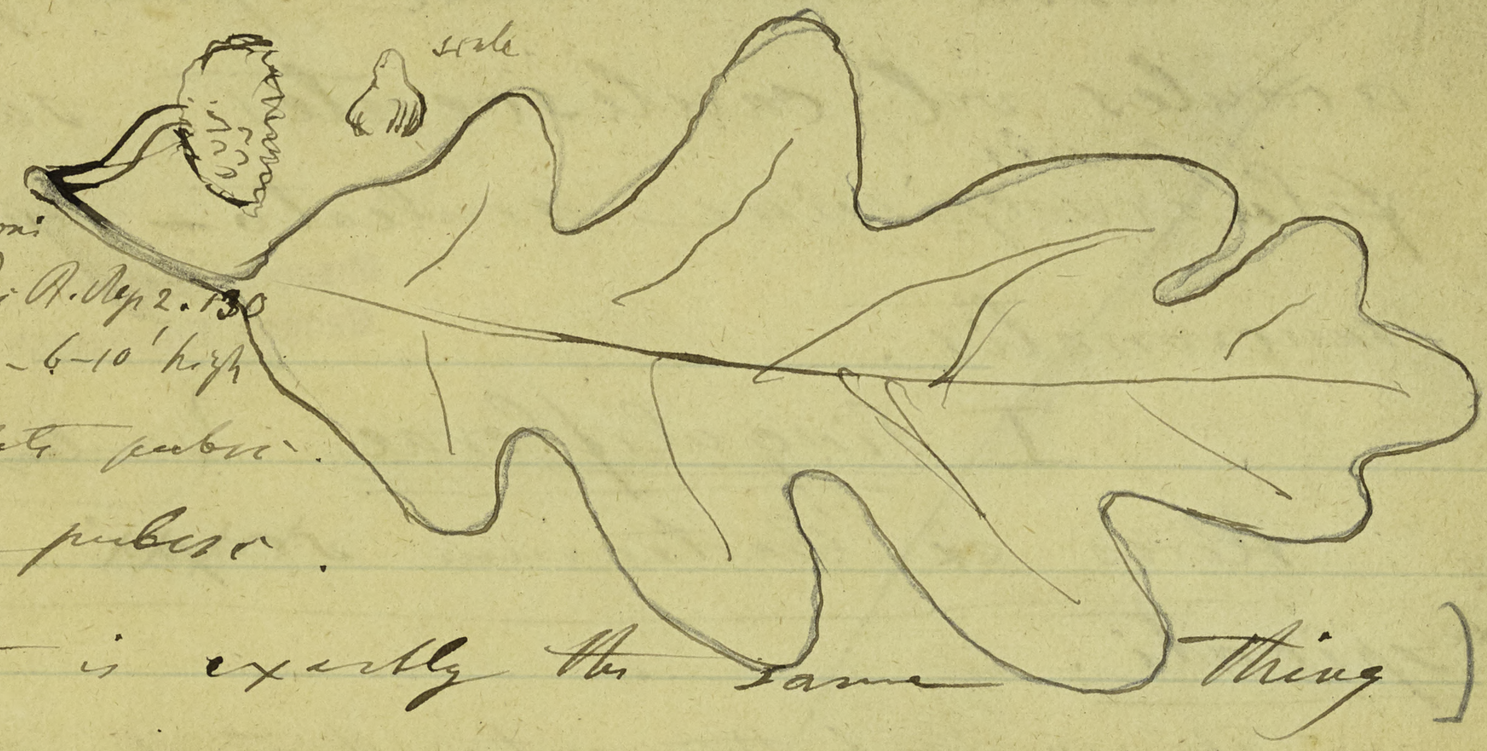
Quercus undulata Torr

Hab A Gray Feb 1876



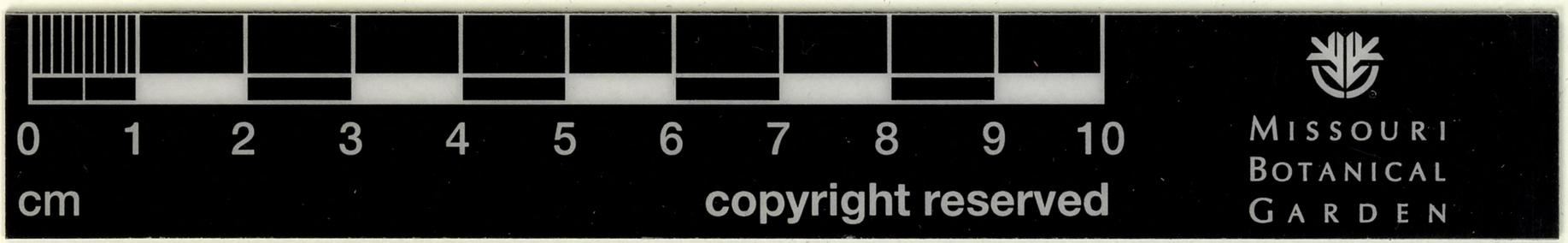
№ 47 Q. alba var ? Gunnisoni
Torr. Pac R. Rep 2. 130

Cobchetopa Pass, Gunnison - 6-10' high

upper side sparingly stellate pubescent.

Lower more densely pubescent.

(C L Greene, Golden City is exactly the same thing)



5901

Plantae Americanae, praecipue Mexicanae, aradules vel caulescentes, saepius giganteae, foliis crassis saepissime aculeato-dentatis spinoso-mucronatis.

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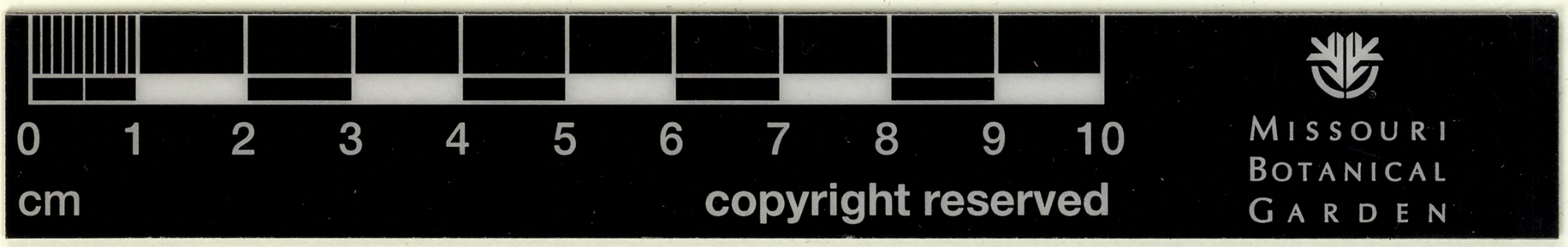
I Singuliflorae (small type)

Flores ex Bractearum axillis singuli, laxe spicati.

The species of this section have a more herbaceous character than those of the two others, they are stemless with softer not contracted above the base,



G. undulata

Colombo, Greene 1873

May 16 1874

5–7 stamens

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R. C. HARRISON,

508 Leffingwell Avenue,

Druggist & Apothecary

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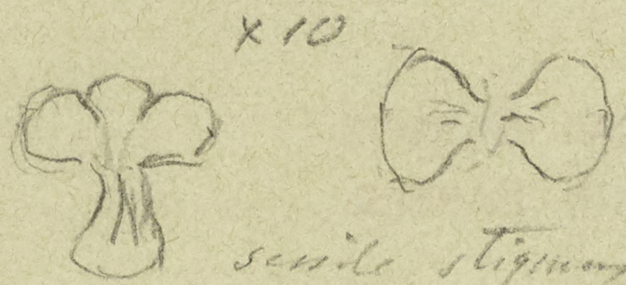
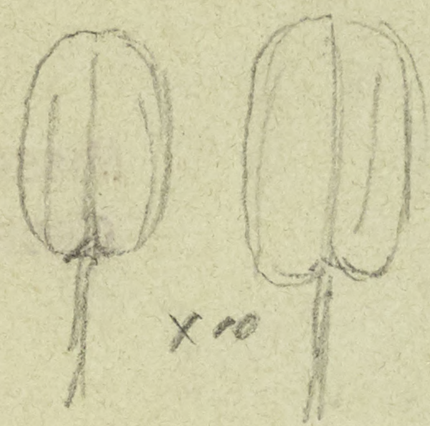
G. undulata Jamaica ? May 18 1874

Hooker, Sr & Palmer May 25



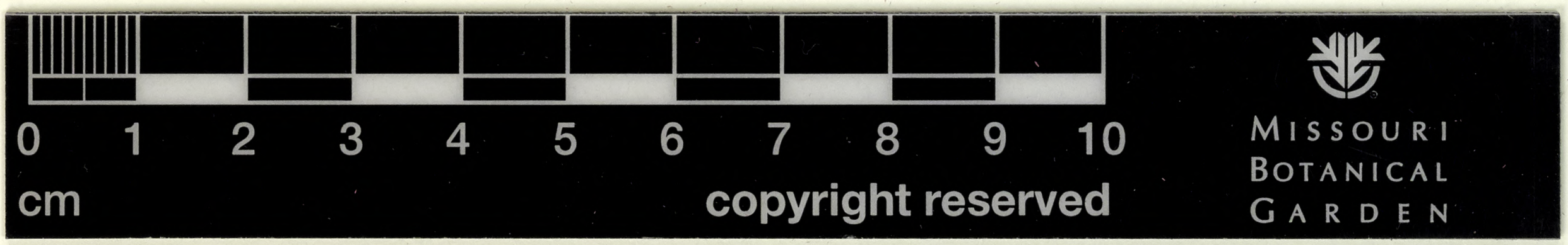
sessile stigmas
of 2 flowers
of same head



longer and smaller
anthers
of apparently 6 adnate

what is it ?

Gray Herbarium of Harvard University
Purchased from Dr. C. C. Parry
Dr. C. C. Parry's Herbarium



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Looking through my Herb. Oct 29 1874 2 sps.

~~Fendler 806~~ Q. undulata Jamesii

Arizona Palmer — & Girard

{E Hall Grass Dunes Bayle
Fendler 807 (undata obtusiloba DC.) } 2 sps
Gamblia var vespanda — Wright Rio Blanco Lo. seems the same
Fendl. 809 & 810 Transition to next form (Douglasii var New Mexicana DC Prod)

Q. undulata Gunnisoni

Fendler 806 (Q. undata DC Prod) but lobes sometimes toothed. — Fendler 809 (= post — fl. spec.)
~~Cañon, Greene~~ 1873
Arizona Palmer 642 ("Cayetra")
Hall & Harbour 575

Q. undulata Jamesii

Fendler 805 smaller sp.; the larger one is same, but lobes acute, not mucronate
Palmer New Mexico May 25
Fendler 808 fol basi cordt. (undata var pedunculata DC

Rec'd Oct 3rd

5904

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Allenton, Mo. Sept. 12- 74

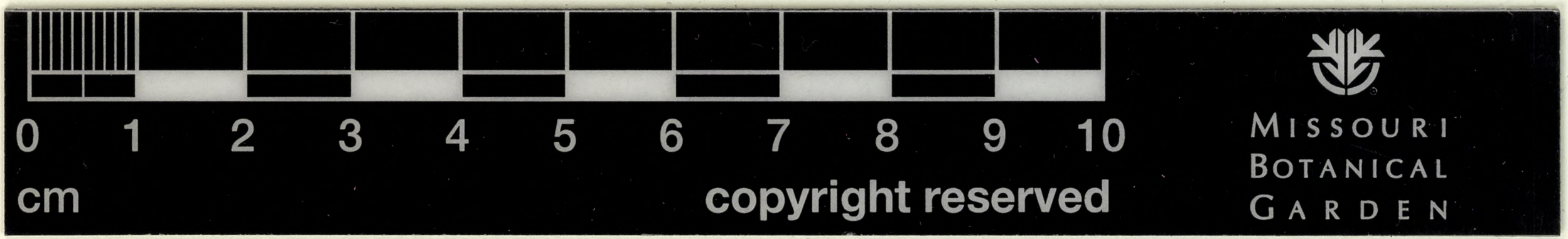
Dr. Geo. Engelmann

Dear Sir:

About a month ago, not aware of your absence, I sent you a number of green plants for name. By this time they must be so dried up and shriveled as to be difficult to determine. Do not trouble yourself with them as I shall try and send fresh and better specimens— or if you prefer it, pressed ones. I

Q. nemus Vaseyi Buckley in herb.
Dec 1875

= Q. undulata James: fide Sp.
= Q. Texana Buckley = palustris (Vasey)



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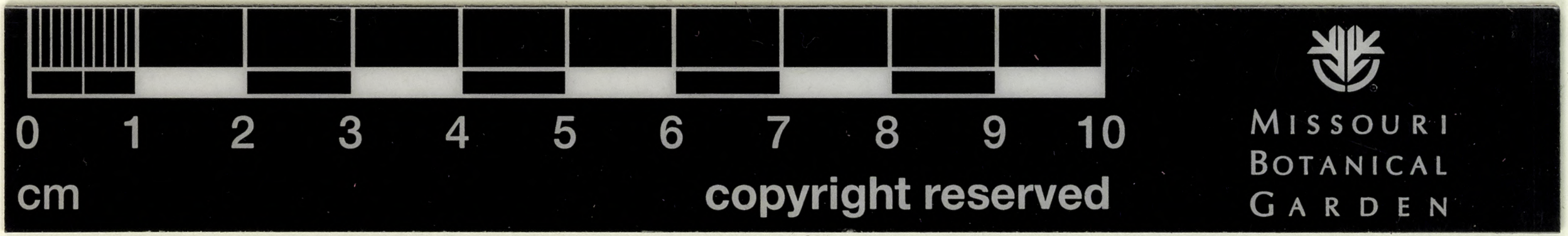
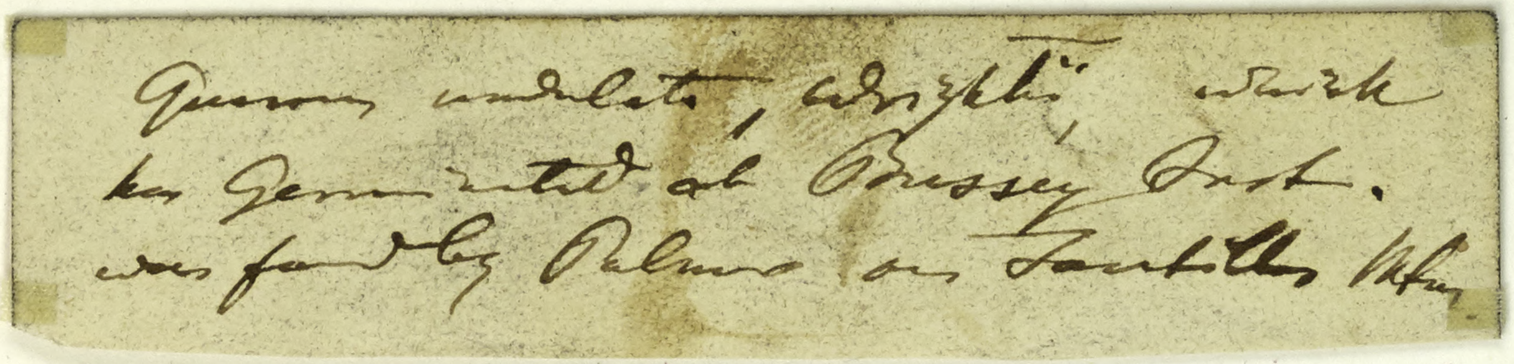
Herbarium of Harvard University





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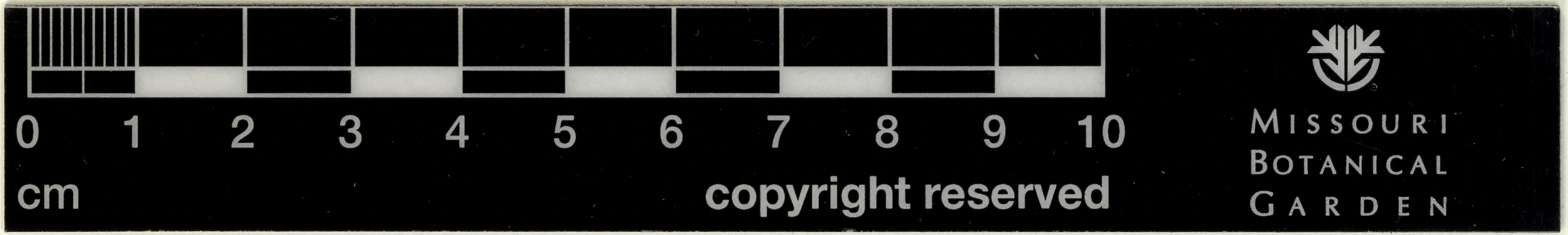

Oct 28 1874

anthers 4–8 – Queens undulata Torr sensu latiore
[illegible] 6 or 4–6

fruticosa, ramulis junioribus paginaque foliorum infera stellato pubescentibus foliis (maxime variis forma magnitudineque), ~~majoribus ambitu ovatis~~ + pinnatifido-lobatis variis spinoso dentatis s. subintegris anthesi ante subglobosis glabris stigmatibus obliquepeltatis oblongis sessilibus, ~~glandulosa~~ magnitudine fructibus 1-3 mm longit. aequa ~~ovatis~~ sessilibus s. varie pedunculatis + capsula ~~ovata~~ tricocca sqamis planis seu basi paleas minus tubuloso tumidis munita, glande ~~ovata~~ s. oblonga ~~s. ad~~ membranacei a. Gambelii foliis majoribus, ambitu ovatis basi angustatis, s. raro obtusis cordatisve, pinnatifido lobatis, lobis plerique latioribus obtusis & serratis ciliato emarginatis, fructibus sessilibus s. breviter pedunculatis majoribus s. mediis, capsula ~~ovata~~ tricocca planis; Tuberculatis s. raro fere planis; glande oblonga s. ovato-oblongata ~~obovata~~ dimidia seu ~~plus~~ ultra parte exserta,

b Gunnisoni foliis ~~parvis~~ minoribus membranacei ambitu lanceolatis; basi angustatis, pinnatifidis, lobis anguste obtusis indivisis, fructibus ut ~~supra~~ in a

c. Jamesii foliis minoribus duriusculis ambitu lanceolatis basi acutis raro obtusis, grosse dentatis, dentibus acutis mucronatis; fructibus mediis minoribus ve, ~~capsula~~ praecedentibus similibus & ~~s~~ cum Cong. pedunculatis minoribus, ~~glo~~ capsula ~~spuriosa~~ laevi, et glande ~~Conjuncta~~ liberi oblonga acuta.

c. Emoryi ~~erecti~~ pungentia foliis parvis coriaceis ovatis ~~planis~~ basi plerumque obtusis s. cordatis, ~~mucronatis~~ s. integris ~~plerumque~~ spinoso dentatis seu raro integris; fructibus praecedentibus similibus & plerumque minoribus ~~Conjunctis~~ (Cong. pedunculatis) capsula minuta laevi.

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Rec'd Oct 21st
Ans 24

5907

Milwaukee Oct 19- 1874

Dr Sir

I was glad to hear from you again, and shall take pleasure in sending you copies of Transactions of the Wisconsin Academy of Science &c containing the paper referred to—from Madison, where I expect to be before the end of this week.

My time is now so much occupied with the Geological Survey that I can do but little in botany or other matters.

Yours very truly

I. A Lapham

Dr Geo Englemann

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